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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-8548

## QC ABSTRACT

**NAME OF WORK:** Desilting of Drains and Removal of Debris and Providing Covering Slab For Dasarahalli

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | Materials | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 3 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2020-12-04-12 **Date: 09-11-20** |
| **Customer** | : | Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | T.Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Desilting of Drains and Removal of Debris and Providing Covering Slab For Dasarahalli |
| **Agency** | : | Sri Muniraj Naik, #58, Rayan Nagara, Nelamangala, Bangalore Rural Dits.-562123 |
| **Customer's Reference** | : | EE/DD/W.O/123/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-11-20 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 07-11-20 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| SLNo. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.85 | _ |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 295 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.15 | _ |
| 4 | Standard Consistency (%) | 28.0% | Not specified |
| 5 | Initial Setting time | 182 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 270 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5 mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬೆಂಗಳೂರು. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ದಾಸರಹಳ್ಳಿ ಪಾರ್ಕ್ ನಂ. 15 ಬೆಂಗಳೂರು 560057

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2020-12-04-12 **Date: 05-12-20** |
| **Customer** | : | Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | T.Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Desilting of Drains and Removal of Debris and Providing Covering Slab For Dasarahalli |
| **Agency** | : | Sri Muniraj Naik, #58, Rayan Nagara, Nelamangala, Bangalore Rural Dits.-562123 |
| **Customer's Reference** | : | EE/DD/W.O/123/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-11-20 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 07-11-20 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 27.5N/mm2 | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 38.5N/mm2 | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm2 | Not less than 53 N/mm$^2$ |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Authorized Signatory
Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : CP-2020-12-04-12 **Date: 09-11-20**

**Customer** : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : T.Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Desilting of Drains and Removal of Debris and Providing Covering Slab For Dasarahalli

**Agency** : Sri Muniraj Naik, #58, Rayan Nagara, Nelamangala, Bangalore Rural Dits.-562123

**Customer's Reference** : EE/DD/W.O/123/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 06-11-20

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 06-11-20

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 133 | 133 | 13.3 | 86.7 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 189 | 322 | 32.2 | 67.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 100 | 422 | 42.2 | 57.8 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 180 | 602 | 60.2 | 39.8 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 197 | 799 | 79.9 | 20.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 104 | 903 | 90.3 | 9.7 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 97 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**

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ದಾಸರಹಳ್ಳಿ ವಾರ್ಡ್ No. ಹೆಬ್ಬಾಗಲಗುಂಟೆ. ಪಿ.ಪಿ.ಎಂ.ಪಿ
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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2020-12-04-12** **Date: 09-11-20**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.85 | – |
| 2 | Specific Gravity | 2.58 | – |
| 3 | Material finer than 75 micron(%) | 8.2 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Authorized Signatory
**Quality Manager**

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# TEST REPORT OF PRECAST COVER SLAB

| | | | |
|---|---|---|---|
| **Lab ID** | : | CP-2020-12-04-12 | **Date: 17-11-20** |
| **Customer** | : | Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore. | |
| **Address** | : | T.Dasarahalli Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Desilting of Drains and Removal of Debris and Providing Covering Slab For Dasarahalli | |
| **Agency** | : | Sri Muniraj Naik, #58, Rayan Nagara, Nelamangala, Bangalore Rural Dits.-562123 | |
| **Customer's Reference** | : | EE/DD/W.O/123/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 13-11-20 | |
| **Sample Type /Size** | : | Precast Cover Slab (100mm) | |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete | |
| **Date of test** | : | 13/11/2020 | |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

* The results obtained are satisfactory as per standard requirements.

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